

Amendments to the Claims:

Please cancel claims 6, 9, 10, 14, 16-18, 25, 28, 29, 33, 35-37, 39 and 43, and amend claims 1, 11, 13, 15, 19, 20, 30, 32, 34, 38 and 40 as shown in the following listing of claims. This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (currently amended) A method for recording and replaying operations in a computer environment, said method comprising:

automatically saving initial conditions of said computer environment in a log file when a recording is initiated, said initial conditions corresponding to an initial state of said computer environment such that said initial state of said computer environment can be automatically recreated on replay using said initial conditions, said initial state being a particular state from a plurality of possible states for said computer environment, said log file including complete definitions of every control in said computer environment with respect to said initial state so that said initial state can be subsequently recreated using said log file; and

recording user inputs to said computer environment to produce a recorded session of said operations in said computer environment;

modifying said initial conditions in said log file in response to user editing of said log file so that a modified initial state of said computer environment is automatically created on replay using modified initial conditions in said log file when said log file is loaded;

automatically loading said log file in a replay computer environment when a replay is initiated to create said modified initial state in said replay computer environment as a starting state for said replay; and

applying said user inputs that were recorded during said recorded session to said replay computer environment to actively operate said replay computer environment to perform said operations that were recorded in said replay computer environment.

1 2. (previously presented) The method of claim 1 wherein said recording includes
2 saving positional changes of a cursor in said computer environment.

1 3. (previously presented) The method of claim 1 wherein said automatically
2 saving includes automatically saving said initial conditions of said computer
3 environment in a first computer file, and wherein said recording includes saving said
4 user inputs to said computer environment in a second computer file.

1 4. (original) The method of claim 1 wherein said recording includes recording
2 positional information of said user inputs in said computer environment relative to a
3 screen on which said computer environment is being displayed.

1 5. (original) The method of claim 1 wherein said recording includes recording
2 timing information of said user inputs.

1 6. (canceled).

1 7. (original) The method of claim 1 further comprising editing said user inputs to
2 said computer environment after said user inputs have been saved.

1 8. (previously presented) The method of claim 1 further comprising:
2 assigning said recorded session to a graphic control device such that
3 said recorded session is replayed when said graphic control device is activated.

1 9. (canceled).

1 10. (canceled).

1 11. (currently amended) The method of claim 1 [[10]] further comprising creating
2 said replay computer environment as a copy of a current computer environment from
3 which replay of said recorded session has been initiated.

1 12. (original) The method of claim 11 wherein said creating includes positioning
2 said replay computer environment over said current computer environment.

1 13. (currently amended) The method of claim 1 [[9]] further comprising wherein
2 ~~said replaying includes~~ selectively delaying said user inputs applied to said replay
3 computer environment such that each of said user inputs is processed before a
4 subsequent user input of said user inputs can be processed.

1 14. (canceled).

1 15. (currently amended) The method of claim 1 [[14]] wherein said applying
2 includes applying recorded positional changes of a cursor.

1 16. (canceled).

1 17. (canceled).

1 18. (canceled).

1 19. (currently amended) The method of claim 1 [[14]] further comprising
2 displaying a graphic representation of a control device to illustrate one or more of
3 said recorded user inputs.

1 20. (currently amended) A storage medium readable by a computer, tangibly
2 embodying a program of instructions executable by said computer to perform method
3 steps for recording and replaying operations in a computer environment, said method
4 steps comprising:
5 automatically saving initial conditions of said computer environment
6 in a log file when a recording is initiated, said initial conditions corresponding to an
7 initial state of said computer environment such that said initial state of said computer
8 environment can be automatically recreated on replay using said initial conditions,
9 said initial state being a particular state from a plurality of possible states for said
10 computer environment, said log file including complete definitions of every control in
11 said computer environment with respect to said initial state so that said initial state
12 can be subsequently recreated using said log file; and
13 recording user inputs to said computer environment to produce a
14 recorded session of said operations in said computer environment;
15 modifying said initial conditions in said log file in response to user
16 editing of said log file so that a modified initial state of said computer environment is
17 automatically created on replay using modified initial conditions in said log file when
18 said log file is loaded;
19 automatically loading said log file in a replay computer environment
20 when a replay is initiated to create said modified initial state in said replay computer
21 environment as a starting state for said replay; and
22 applying said user inputs that were recorded during said recorded
23 session to said replay computer environment to actively operate said replay computer
24 environment to perform said operations that were recorded in said replay computer
25 environment.

1 21. (previously presented) The storage medium of claim 20 wherein said
2 recording includes saving positional changes of a cursor in said computer
3 environment.

1 22. (previously presented) The storage medium of claim 20 wherein said
2 automatically saving includes automatically saving said initial conditions of said
3 computer environment in a first computer file, wherein said recording includes saving
4 said user inputs to said computer environment in a second computer file.

1 23. (original) The storage medium of claim 20 wherein said recording includes
2 recording positional information of said user inputs in said computer environment
3 relative to a screen on which said computer environment is being displayed.

1 24. (original) The storage medium of claim 20 wherein said recording includes
2 recording timing information of said user inputs.

1 25. (canceled).

1 26. (original) The storage medium of claim 20 further comprising editing said
2 user inputs to said computer environment after said user inputs have been saved.

1 27. (previously presented) The storage medium of claim 20 further comprising:
2 assigning said recorded session to a graphic control device such that
3 said recorded session is replayed when said graphic control device is activated.

1 28. (canceled).

1 29. (canceled).

1 30. (currently amended) The storage medium of claim 20 [[29]] further
2 comprising creating said replay computer environment as a copy of a current
3 computer environment from which replay of said recorded session has been initiated.

1 31. (original) The storage medium of claim 30 wherein said creating includes
2 positioning said replay computer environment over said current computer
3 environment.

1 32. (currently amended) The storage medium of claim 20 [[28]] further
2 comprising ~~wherein said replaying includes~~ selectively delaying said user inputs
3 applied to said replay computer environment such that each of said user inputs is
4 processed before a subsequent user input of said user inputs can be processed.

1 33. (canceled).

1 34. (currently amended) The storage medium of claim 20 [[33]] wherein said
2 applying includes applying recorded positional changes of a cursor.

1 35. (canceled).

1 36. (canceled).

1 37. (canceled).

1 38. (currently amended) The storage medium of claim 20 [[33]] further
2 comprising displaying a graphic representation of a control device to illustrate one or
3 more of said recorded user inputs.

1 39. (canceled).

1 40. (currently amended) The method of claim 1 [[6]] wherein said modifying
2 ~~editing said initial conditions~~ includes editing one or more graphic items in said
3 computer environment independent of said user inputs to modify said initial state of
4 said computer environment.

1 41. (previously presented) The method of claim 7 wherein said editing said user
2 inputs includes editing moving one or more mouse events after said mouse events
3 have been recorded as some of said user inputs independent of said initial conditions.

1 42. (previously presented) The method of claim 11 wherein said creating
2 comprises:
3 creating a connection for said replay computer environment;
4 establishing said connection between said replay computer
5 environment and said current computer environment on a predetermined port;
6 sending messages across said connection from said current computer
7 environment to said replay computer environment to control said replay computer
8 environment; and
9 sending acknowledgement across said connection from said replay
10 computer environment to said current computer environment to synchronize
11 behaviors of said replay computer environment and said current computer
12 environment.

1 43. (canceled).